

Title (en)

Process of preparation of copolymers clear in water.

Title (de)

Verfahren zur Herstellung von in Wasser klaren Copolymerisaten.

Title (fr)

Procédé de préparation de copolymères clairs dans l'eau.

Publication

**EP 0418721 B1 19931201 (DE)**

Application

**EP 90117566 A 19900912**

Priority

DE 3931681 A 19890922

Abstract (en)

[origin: EP0418721A2] Preparation of copolymers which are clear in water from A) 45 to 90% by weight of N-vinylpyrrolidone, B) 10 to 55% by weight of a vinyl ester and C) 0 to 10% by weight of further copolymerisable monomers by free radical polymerisation in an organic solvent in the presence of a free radical initiator and separation of the organic solvent and other volatile components by distillation, by carrying out the polymerisation until the N-vinylpyrrolidone content of the reaction mixture corresponds to 5 to 1% by weight of the amount of N-vinylpyrrolidone used, substantially separating off the organic solvent and other volatile components by distillation, adding water to the mixture, leaving the aqueous solution for 1 to 10 hours at 50 to 100 DEG C with further addition of free radical initiators and then virtually completely removing volatile organic components by steam distillation.

IPC 1-7

**C08F 226/10; C08F 218/04**

IPC 8 full level

**C08F 6/10** (2006.01); **C08F 2/04** (2006.01); **C08F 2/10** (2006.01); **C08F 6/00** (2006.01); **C08F 26/10** (2006.01); **C08F 218/02** (2006.01); **C08F 218/04** (2006.01); **C08F 226/10** (2006.01)

CPC (source: EP US)

**C08F 6/003** (2013.01 - EP US); **C08F 218/04** (2013.01 - EP US); **C08F 226/10** (2013.01 - EP US)

Cited by

EP0688799A1; EP0545209A1; EP0655470A1; US5712356A; US5936052A; US7449531B2; US7572871B2; US6342570B1; US7572870B2; US7629425B2; US7442751B2; US7847044B2

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